

Masters Project Preparation

Assignment 2a and 2b

ABOUT THE PROJECT:

My project will be a Prototype of Genetic Banks.

My project will be about a system of banks/research centers preserving genetic information of endangered plant species and researching possibilities of artificial reproduction.

My project will be developed because due to climate change the problem of global warming becomes more actual and a lot of plant species are in danger of extinction. As scientists assume, Arctic ice might totally disappear by 2040, which will, of course, cause the changes in water level and therefore, flood a large part of the Earth. Besides the tragic events that might occur as land is slowly being flooded, certain species are more under risk of dying out than others. People and wildlife are mobile and have a freedom to gradually migrate to higher places, while plants are fixed to their roots and have no capability of moving. The question rises – how do we save the endangered plant species from extinction?

I would like to develop a system of research centers spread throughout the world, researching and conserving plants of different kinds, based on their unique location and nature conditions. After locating these buildings on a “web” of genetic banks, I would like to concentrate on creating prototype architecture of these facilities. The research centers would include seedbanks and labs, where groups of scientists would conserve and reproduce endangered species, and also facilities to help rise public interest and awareness.

PROJECT GOALS:

The idea is important because the results of global warming might be much more destructive in long term than a lot of people might realize; once we lose species of live organisms without a trace, we might never get them back. And it is not just the specific species we lose, but the entire chain reaction tied to it. Since the issue is global, solving something of that scale is connected to large amount of resources of different kinds. Preserving plants by creating genetic banks for later artificial reproduction seems to me like a more realistic option then preserving entire lands.

The project will solve issues of plant species extinction caused by global warming.

The project will be successful by creating not only one or two centers for species preservation, but by designing an entire system, a net of intellect, specialists from different parts of the world fighting for saving the green.

Potential Design Responses:

- Creating a net of genetic centers in different endangered parts of the world.
- Designing a prototype building which could work in different climate conditions with the same success.
- Making the system as much off-grid and sustainable as possible.